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LOUDOUN COUNTY

HS-7 Dulles South High School and  
Elementary School, Goshen Road Assemblage  
BCG Job #: 5185-01-002

### **TREE COVER EVALUATION – SOUTHERN PORTION OF SITE**

#### **Inventory Location**

Inventory was conducted on the southern portion of the Goshen Assemblage site, to include entire Frances L Hall parcel (MCPI # 249-38-2718) and the majority of the Doris Mae Larsen parcel (MCPI # 248-37-9637), located on the west side of Goshen Road (Route 616) between John Mosby Highway (Route 50) and Braddock Road (Route 620).

#### **Inventory Area**

15 acres (+/-)

#### **Topography**

Level to gently sloping

#### **Inventory Procedure**

A one hundred percent (100%) inventory was taken of all deciduous trees that measured a minimum of twenty-two inches (22") in diameter and conifers that measured a minimum of fourteen inches (14") in diameter at 4.5 feet above ground level. Each tree was tagged with a specific number and the diameter, species, and crown width of each specimen was recorded. Any unique descriptive features were also noted, as appropriate. The inventory was completed on December 14, 2009.

#### **Insect\Disease**

Little to no insect or disease damage found within the inventory area. Where damage was detected, it was on over mature declining specimens.

#### **Understory Description**

Sparingly stocked with Hickory (*Carya* sp.), Eastern Red Cedar (*Juniperus virginiana*), mixed Oak (*Quercus* sp.), Black Gum (*Nyssa sylvatica*) and Black Cherry (*Prunus serotina*). The understory consists of mostly stems ranging in diameter from approximately two inches (2") to ten inches (10").

#### **Stand Description**

This stand is an over mature stand consisting primarily of Oak (*Quercus* sp.) and Virginia Pine (*Pinus virginiana*). Of the specimens measured in this study, the stand is comprised with approximately seventy five percent (75%) Oak species (*Quercus* sp.), twenty three percent (23%) Virginia Pine (*Pinus virginiana*) and two percent (2%) Hickory (*Carya* sp.). The majority of the species ranging in diameter from twelve inches (12") to twenty inches (20") consist mainly of Oak (*Quercus* sp.) with a few scattered Hickory (*Carya* sp.) and Virginia Pine (*Pinus*

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*virginiana*). The canopy is closed, and is receding due to the age and decline of the canopy species. No heritage or monarch trees were found within the surveyed area. The specimen trees, with a diameter of thirty inches (30") or greater, were found to be in various stages of decline.

#### **Stand Evaluation**

Overall, the stand was found to be generally healthy and free of insect damage. The majority of the larger trees, twenty six inches (26") and greater, are in various stages of decline, whereas the smaller trees seem to be healthy and somewhat vigorous. The under story is sparsely stocked with little to no underbrush, this is likely a result of the combination of the closed canopy and damage from over browsing.

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Narrative Prepared by: Brian Gainer, ISA Certified Arborist MA-4808A

Tree #	Common Name Identification	Scientific Name Identification	DBH - Inches	Dripline - Diameter in Feet	Area of Root System	Comments
701	Black Oak	<i>Quercus velutina</i>	24	36	2290	Double @ 3' (18" broken off-dead)
702	Virginia Pine	<i>Pinus virginiana</i>	16	22	855	
703	Virginia Pine	<i>Pinus virginiana</i>	14	18	572	One sided crown
704	Virginia Pine	<i>Pinus virginiana</i>	14	18	572	
705	Pin Oak	<i>Quercus palustris</i>	22	26	1194	
706	Virginia Pine	<i>Pinus virginiana</i>	20	30	1590	
707	Black Oak	<i>Quercus velutina</i>	30	30	1590	Receding crown, Open areas of decay
708	Virginia Pine	<i>Pinus virginiana</i>	18	20	707	Insect damage, Fence line
709	Virginia Pine	<i>Pinus virginiana</i>	18	20	707	Insect damage
710	White Oak	<i>Quercus alba</i>	32	38	2551	Receding crown
711	Virginia Pine	<i>Pinus virginiana</i>	18	24	1018	
712	Black Oak	<i>Quercus velutina</i>	22	28	1385	Receding crown
713	Black Oak	<i>Quercus velutina</i>	24	30	1590	
714	Black Oak	<i>Quercus velutina</i>	24	32	1809	
715	Black Oak	<i>Quercus velutina</i>	28	40	2827	Receding crown, Open areas of decay
716	Virginia Pine	<i>Pinus virginiana</i>	20	22	855	
717	Virginia Pine	<i>Pinus virginiana</i>	18	20	707	
718	Virginia Pine	<i>Pinus virginiana</i>	16	20	707	
719	Virginia Pine	<i>Pinus virginiana</i>	16	18	572	Open areas of decay
720	White Oak	<i>Quercus alba</i>	24	36	2290	Receding crown, Open areas of decay
721	White Oak	<i>Quercus alba</i>	38	42	3117	Receding crown, Open areas of decay, Insect damage
722	Virginia Pine	<i>Pinus virginiana</i>	14	18	572	
723	Virginia Pine	<i>Pinus virginiana</i>	16	22	855	
724	Virginia Pine	<i>Pinus virginiana</i>	20	24	1018	
725	Virginia Pine	<i>Pinus virginiana</i>	22	28	1385	
726	White Oak	<i>Quercus alba</i>	28	42	3117	Receding crown
727	Black Oak	<i>Quercus velutina</i>	28	32	1809	Receding crown, Open areas of decay
728	Black Oak	<i>Quercus velutina</i>	28	36	2290	
729	Black Oak	<i>Quercus velutina</i>	36	48	4071	Receding crown, Open areas of decay
730	Black Oak	<i>Quercus velutina</i>	28	38	2551	
731	Black Oak	<i>Quercus velutina</i>	30	38	2551	Receding crown, Stress cracks
732	White Oak	<i>Quercus alba</i>	32	50	4417	
733	White Oak	<i>Quercus alba</i>	24	34	2043	
734	Black Oak	<i>Quercus velutina</i>	28	34	2043	Receding crown
735	White Oak	<i>Quercus alba</i>	24	30	1590	
736	Black Oak	<i>Quercus velutina</i>	26	32	1809	
737	Black Oak	<i>Quercus velutina</i>	26	30	1590	Open areas of decay
738	White Oak	<i>Quercus alba</i>	26	34	2043	Receding crown, Open areas of decay

739	Black Oak	Quercus velutina	22	28	1385
740	Virginia Pine	Pinus virginiana	14	24	1018
741	Virginia Pine	Pinus virginiana	18	28	1385
742	Virginia Pine	Pinus virginiana	14	20	707
743	Virginia Pine	Pinus virginiana	16	22	865
744	White Oak	Quercus alba	28	44	3421
745	White Oak	Quercus alba	22	32	1809
746	White Oak	Quercus alba	26	32	1809
747	White Oak	Quercus alba	26	30	1590
748	White Oak	Quercus alba	22	30	1590
749	Virginia Pine	Pinus virginiana	16	22	855
750	Virginia Pine	Pinus virginiana	16	22	855
751	Black Oak	Quercus velutina	26	32	1809
752	Virginia Pine	Pinus virginiana	14	22	855
753	White Oak	Quercus alba	38	34	2043
754	Black Oak	Quercus velutina	24	30	1590
755	White Oak	Quercus alba	24	28	1385
756	White Oak	Quercus alba	24	34	2043
757	Black Oak	Quercus velutina	40	42	3117
758	Hickory	Carya species	22	30	1590
759	White Oak	Quercus alba	26	34	2043
760	White Oak	Quercus alba	34	40	2827
761	White Oak	Quercus alba	22	32	1809
762	White Oak	Quercus alba	24	34	2043
763	White Oak	Quercus alba	22	28	1385
764	Black Oak	Quercus velutina	36	36	2290
765	Black Oak	Quercus velutina	26	36	2290
766	Black Oak	Quercus velutina	26	30	1590
767	White Oak	Quercus alba	26	30	1590
768	White Oak	Quercus alba	22	34	2043
769	White Oak	Quercus alba	22	30	1590
770	Virginia Pine	Pinus virginiana	16	24	1018
771	Virginia Pine	Pinus virginiana	14	18	572
772	Virginia Pine	Pinus virginiana	14	20	707
773	White Oak	Quercus alba	30	50	4417
774	White Oak	Quercus alba	26	36	2290
775	Black Oak	Quercus velutina	28	32	1809
776	White Oak	Quercus alba	38	46	3739
777	Black Oak	Quercus velutina	22	28	1385
778	White Oak	Quercus alba	30	36	2290
779	White Oak	Quercus alba	28	34	2043
780	White Oak	Quercus alba	40	48	4071

781	White Oak	<i>Quercus alba</i>	28	40	2827	Poor form, Stress crack
782	White Oak	<i>Quercus alba</i>	22	32	1809	
783	White Oak	<i>Quercus alba</i>	34	34	2043	Forks @ 5'
784	White Oak	<i>Quercus alba</i>	24	32	1809	
785	White Oak	<i>Quercus alba</i>	22	34	2043	
786	White Oak	<i>Quercus alba</i>	24	34	2043	Receding crown, Open areas of decay
787	White Oak	<i>Quercus alba</i>	22	30	1590	
788	White Oak	<i>Quercus alba</i>	26	30	1590	Forks @ 7'
789	Black Oak	<i>Quercus velutina</i>	28	38	2551	
790	Black Oak	<i>Quercus velutina</i>	24	34	2043	
791	White Oak	<i>Quercus alba</i>	32	32	1809	Forks @ 7'
792	Black Oak	<i>Quercus velutina</i>	24	36	2290	Open areas of decay
793	Black Oak	<i>Quercus velutina</i>	32	38	2551	Fenceline
794	Black Oak	<i>Quercus velutina</i>	24	38	2551	
795	White Oak	<i>Quercus alba</i>	30	50	4417	
796	White Oak	<i>Quercus alba</i>	26	36	2290	Double @ 4' (dead), Open areas of decay
797	White Oak	<i>Quercus alba</i>	28	32	1809	Forks @ 5'
798	White Oak	<i>Quercus alba</i>	32	40	2827	Forks @ 7'
799	White Oak	<i>Quercus alba</i>	22	34	2043	
800	White Oak	<i>Quercus alba</i>	26	32	1809	
801	White Oak	<i>Quercus alba</i>	32	30	1590	Open areas of decay
802	Black Oak	<i>Quercus velutina</i>	22	28	1385	Receding crown, Open areas of decay
803	Black Oak	<i>Quercus velutina</i>	22	28	1385	
804	White Oak	<i>Quercus alba</i>	22	32	1809	Fenceline
805	White Oak	<i>Quercus alba</i>	22	30	1590	Open areas of decay
806	White Oak	<i>Quercus alba</i>	24	32	1809	
807	White Oak	<i>Quercus alba</i>	22	28	1385	
808	White Oak	<i>Quercus alba</i>	28	28	1385	Forks @ 7'
809	Black Oak	<i>Quercus velutina</i>	22	36	2290	
810	Black Oak	<i>Quercus velutina</i>	22	34	2043	
811	Black Oak	<i>Quercus velutina</i>	22	24	1018	Double @ ground level (20")
812	Black Oak	<i>Quercus velutina</i>	28	36	2290	
813	Black Oak	<i>Quercus velutina</i>	30	42	3117	
814	White Oak	<i>Quercus alba</i>	28	38	2551	
815	White Oak	<i>Quercus alba</i>	24	32	1809	
816	Black Oak	<i>Quercus velutina</i>	22	28	1385	
817	White Oak	<i>Quercus alba</i>	22	32	1809	
818	Black Oak	<i>Quercus velutina</i>	24	32	1809	Receding crown, Open areas of decay
819	White Oak	<i>Quercus alba</i>	30	28	1385	Receding crown, Open areas of decay
820	White Oak	<i>Quercus alba</i>	24	34	2043	Double @ ground level (20"), Forks @ 6'
821	Black Oak	<i>Quercus velutina</i>	42	46	3739	Receding crown, Open areas of decay
822	White Oak	<i>Quercus alba</i>	26	38	2551	Forks @ 7'

823	Hickory	Carya species	22	28	1385
824	Black Oak	Quercus velutina	28	30	1590 Forks @ 7', Insect damage
825	Black Oak	Quercus velutina	22	30	1590 Receding crown, Open areas of decay
826	White Oak	Quercus alba	22	32	1809 Double @ ground level (10")
827	Black Oak	Quercus velutina	24	30	1590 Receding crown, Open areas of decay
828	White Oak	Quercus alba	22	30	1590 Triple @ Ground level (8", 20"), Receding crown, Insect damage
829	Hickory	Carya species	24	32	1809
830	Black Oak	Quercus velutina	22	30	1590 Receding crown
831	White Oak	Quercus alba	28	46	3739 Receding crown, Open areas of decay, Insect damage
832	Virginia Pine	Pinus virginiana	16	24	1018 Open areas of decay
833	Virginia Pine	Pinus virginiana	14	26	1194
834	Virginia Pine	Pinus virginiana	14	22	855
835	Virginia Pine	Pinus virginiana	16	24	1018
836	Hickory	Carya species	22	26	1194
837	Black Oak	Quercus velutina	32	32	1809 Receding crown
838	Virginia Pine	Pinus virginiana	18	24	1018 Open areas of decay
839	White Oak	Quercus alba	28	34	2043
840	Black Oak	Quercus velutina	30	48	4071
841	White Oak	Quercus alba	28	42	3117
842	Virginia Pine	Pinus virginiana	14	18	572
843	Virginia Pine	Pinus virginiana	14	20	707
844	Virginia Pine	Pinus virginiana	16	20	707

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